



CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005



Job No.: CTCE/BBMP/MNS/W.No.08/CSR-09/139d/CEMENT/2016-17

Date: 10.09.2016

TEST REPORT ON CEMENT

* CUSTOMER	:	Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
*AGENCY	:	Mr. M.N. Shashidhar, No.33, HVR Layout, Magadi Main Road, Bangalore – 79.
*NAME OF THE WORK	:	Improvements to Roads and Drains at Kodigehalli Village surroundings in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.
REFERENCE	:	AEE(KSD)/PR/2016-17 Dated: 09.09.2016
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	09.09.2016
PERIOD OF TESTING	:	09.09.2016 to 10.09.2016



The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	29.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	490 Minutes	Not More than 600 Minutes
3	Soundness by Le Chatelier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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VISHWANATH. I.A.
Chief Executive Officer

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Job No.: CTCE/BBMP/MNS/W.No.08/CSR-09/139d/SAND-Gradation/2016-17

: 10.09.2016

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

* Customer : Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
* Agency : Mr. M.N. Shashidhar,
No.33, HVR Layout, Magadi Main Road, Bangalore – 79.
* Name of Work : Improvements to Roads and Drains at Kodigehalli Village surroundings in Ward
No.08, Kodigehalli Sub Division, BBMP, Bangalore.
Reference : AEE(KSD)/PR/2016-17 Dated: 09.09.2016
Technical Reference : IS : 2386 Part 1 - 1963 RA-2007
Sample ID : Fine Aggregates
Sample Received on : 09.09.2016
Date of Testing : 10.09.2016



Total Wt. of Aggregates in gms **1000**

A&S
✓

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	92.60	90-100	90-100	90-100	95-100
2.36	74.40	60-95	75-100	85-100	95-100
1.18	53.20	30-70	55-90	75-100	90-100
600 Micron	24.60	15-34	35-59	60-79	80-100
300 Micron	8.80	5-20	8-30	12-40	15-50
150 Micron	3.60	0-10	0-10	0-10	0-15

*Information is furnished by the Customer/Representative.

Remarks : This sample is under Zone-I specific limits.

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: 10.09.2016

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

* Customer : Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

* Agency : Mr. M.N. Shashidhar,
No.33, HVR Layout, Magadi Main Road, Bangalore – 79.

* Name of Work : Improvements to Roads and Drains at Kodigehalli Village surroundings in
Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.

Reference : AEE(KSD)/PR/2016-17 Dated: 09.09.2016

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (40mm)

Sample Received on : 09.09.2016

Date of Testing : 10.09.2016



Total Wt. of Aggregates in gms= 5000

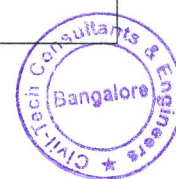
Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	98.40	95-100	85-100
20	38.90	30-70	0-20
10	17.80	10-35	0-5
4.75	4.40	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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: 10.09.2016

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

* Customer : Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

* Agency : Mr. M.N. Shashidhar,
No.33, HVR Layout, Magadi Main Road, Bangalore – 79.

* Name of Work : Improvements to Roads and Drains at Kodigehalli Village surroundings in
Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.

Reference : AEE(KSD)/PR/2016-17 Dated: 09.09.2016

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (20mm)

Sample Received on : 09.09.2016

Date of Testing : 10.09.2016



Total Wt. of Aggregates in gms= 5000

AE-8
✓

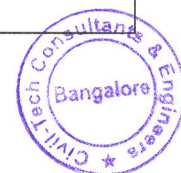
Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS :383-1970 (RA- 2007)	
		Graded	Single Sized
40	100	100	100
20	96.26	95-100	85-100
10	33.36	25-55	0-20
4.75	2.84	0-10	0-5

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits

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Job No.: CTCE/BBMP/MNS/W.No.08/STEEL/2016-17

13.09.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer : Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Agency : Mr. M.N. Shashidhar,
No.33, HVR Layout, Magadi Main Road, Bangalore - 79.

Name of the work : Improvements to Roads and Drains at Kodigehalli Village surroundings in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.

Reference : AEE(KSD)/PR/2016-17 Dated: 09.09.2016

Date of Test : 13.09.2016

Technical Reference : IS: 1786-2008



AEE-8
2

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm ²	Tensile strength (Ultimate stress) N/mm ²	Elongation percent gauge length		
1	10	0.62	513	556	• 13.20	O.K	O.K

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Reference : AEE(KSD)/PR/2016-17 Dated: 09.09.2016

Date of Test : 13.09.2016

Technical Reference : IS: 1786-2008



A&S
2

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm ²	Tensile strength (Ultimate stress) N/mm ²	Elongation percent gauge length		
1	12	0.89	515	558	13.55	O.K	O.K

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Date of Test : 13.09.2016

Technical Reference : IS: 1786-2008



A&B
2

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm ²	Tensile strength (Ultimate stress) N/mm ²	Elongation percent gauge length		
1	16	1.58	520	563	13.70	O.K	O.K

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27.09.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*Customer : Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

*Agency : Mr. M.N. Shashidhar,
No.33, HVR Layout, Magadi Main Road, Bangalore – 79.

*Name of the work : Improvements to Roads and Drains at Kodigehalli Village surroundings in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.

Reference : AEE(KSD)/PR/2016-17 Dated: 17.10.2016

*Sample ID : Culvert Deck Slab Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*Grade of Concrete : M₂₀

Compressive Strength as on : 7th day

Sample Received on : 27.09.2016



Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	20.09.2016	27.09.2016	8.364	346.8	15.41
2	20.09.2016	27.09.2016	8.251	336.5	14.96
3	20.09.2016	27.09.2016	8.163	323.4	14.37

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/MNS/W.No.08/CSR-09/139d/CUBE/2016-17

18.10.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*Customer : Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

*Agency : Mr. M.N. Shashidhar,
No.33, HVR Layout, Magadi Main Road, Bangalore – 79.

*Name of the work : Improvements to Roads and Drains at Kodigehalli Village surroundings in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.

Reference : AEE(KSD)/PR/2016-17 Dated: 17.10.2016

*Sample ID : Culvert Deck Slab Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*Grade of Concrete : M₂₀

Compressive Strength as on : 28th day

Sample Received on : 18.10.2016



Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	20.09.2016	18.10.2016	8.264	494.2	21.96
2	20.09.2016	18.10.2016	8.374	508.5	22.60
3	20.09.2016	18.10.2016	8.415	519.6	23.09

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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*Agency : Mr. M.N. Shashidhar,
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Reference : AEE(KSD)/PR/2016-17 Dated: 17.10.2016

*Sample ID : Culvert Deck Slab Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*Grade of Concrete : M₂₀

Compressive Strength as on : 7th day

Sample Received on : 27.09.2016



A&B
1

Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	20.09.2016	27.09.2016	8.364	346.3	15.39
2	20.09.2016	27.09.2016	8.158	320.6	14.25
3	20.09.2016	27.09.2016	8.277	333.9	14.84

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*Customer : **Asst. Executive Engineer**, Kodigehalli Sub Division, BBMP, Bangalore.

*Agency : **Mr. M.N. Shashidhar**,
No.33, HVR Layout, Magadi Main Road, Bangalore – 79.

*Name of the work : Improvements to Roads and Drains at Kodigehalli Village surroundings in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.

Reference : AEE(KSD)/PR/2016-17 Dated: 17.10.2016

*Sample ID : Culvert Deck Slab Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*Grade of Concrete : M₂₀

Compressive Strength as on : 28th day

Sample Received on : 18.10.2016



Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	20.09.2016	18.10.2016	8.369	527.4	23.44
2	20.09.2016	18.10.2016	8.257	514.9	22.88
3	20.09.2016	18.10.2016	8.152	502.6	22.34

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*Customer : Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

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Reference : AEE(KSD)/PR/2016-17 Dated: 17.10.2016

*Sample ID : Culvert Deck Slab Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*Grade of Concrete : M₂₀

A&E
2
Compressive Strength as on : 7th day

Sample Received on : 27.09.2016

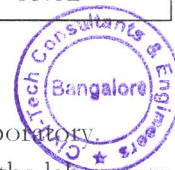


Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	20.09.2016	27.09.2016	8.185	318.6	14.16
2	20.09.2016	27.09.2016	8.297	326.5	14.51
3	20.09.2016	27.09.2016	8.326	340.2	15.12

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18.10.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*Customer : **Asst. Executive Engineer**, Kodigehalli Sub Division, BBMP, Bangalore.

*Agency : **Mr. M.N. Shashidhar**,
No.33, HVR Layout, Magadi Main Road, Bangalore – 79.

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Reference : AEE(KSD)/PR/2016-17 Dated: 17.10.2016

*Sample ID : Culvert Deck Slab Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*Grade of Concrete : M₂₀



AEE-8 Compressive Strength as on : 28th day

2 Sample Received on : 18.10.2016

Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	20.09.2016	18.10.2016	8.257	499.3	22.19
2	20.09.2016	18.10.2016	8.369	515.4	22.91
3	20.09.2016	18.10.2016	8.412	522.3	23.21

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